

What is claimed is:

1. A flash unit control circuit for a camera, comprising:
 - a power supply;
 - a flash unit capacitor;
- 5 a voltage converter connected between the power supply and the flash unit capacitor and arranged to supply charging current from the power supply to the flash unit capacitor;
 - a square-wave oscillator connected to the voltage converter and having a control signal input;
- 10 wherein when a micro control unit (MCU) of the camera sends a flash unit-enabling signal to the control signal input of the square-wave oscillator, the square wave oscillator supplies a square wave signal to the voltage converter and thereby charges the flash unit capacitor.
- 15 2. The flash unit control circuit as claimed in claim 1, wherein the voltage converter further has a first transistor, which is controlled according to "ON" and "OFF" states of the square wave signal.
- 20 3. The flash unit control circuit as claimed in claim 1, further comprising a charge-enabling control circuit that further processes the flash unit-enabling signal.
4. The flash unit control circuit as claimed in claim 1, wherein the power supply is a battery.
- 25 5. The flash unit control circuit as claimed in claim 1, wherein the voltage converter further has a current control circuit being able to receive a current control signal sent by the MCU, and to regulate the amount of the charging current, wherein the current control signal represents a voltage condition of the power supply.
- 30

6. The flash unit control circuit as claimed in claim 5, wherein the current control circuit further has a second transistor, which regulates the amount of the charging current according to the current control signal.
- 5 7. The flash unit control circuit as claimed in claim 2, wherein the voltage converter further has a current control circuit arranged to receive a current control signal sent by the MCU; and wherein the current control circuit further has a second transistor, which regulates the amount of the charging current according to the current control signal.